# Ideal for VDI Infrastructure

- Powerful
- Scale out capacity and performance
- ✓ Fault Tolerant
- ✓ Flexible

# What is RTG-HCH?

### Supermicro's range of 'Ready To Go' Hyper-Converged Haswell-based solutions.

These feature Atlantis Computing's USX software to offer the industry's most flexible, powerful Software-Defined Storage (SDS) platforms to date with better performance than the fastest all-flash array, at half the cost of traditional SAN and on any class of enterprise storage!

How? The software optimises the way in which storage is consumed by the application or virtual machine (VM) by inserting a transparent software layer between the application and the storage hardware. The software resides on the hypervisor platform as a set of VMs that can abstract Supermicro storage hardware into pools of virtual storage or combine together to form an Application-Defined Storage (ADS) Volume.

These SDS solutions are purpose-built and have been proven to boost any virtualized workload's performance while increasing the effective storage capacity.

### **Features and Benefits**

#### **Cost Reduction**

Reduces the amount of physical storage required by increasing the performance for any application set and utilising lower-cost commodity hardware from Supermicro.

### **Performance Acceleration**

Delivers all-flash performance with DRAM accelerations to all applications, increasing transactions per second for application workloads. Allows enterprises to achieve stunning performance at a fraction of the cost of a SAN.

### VDI

Allows for the deployment of persistent or stateless Virtual Desktop Infrastructure (VDI) deployments that are faster and cheaper than physical PCs.

### Data Services

Employs Content-Aware Data Services that leverage real-time deduplication technology to provide data reduction, IO acceleration, provisioning, data mobility, security and business continuity for any storage.



Scale-out cluster nodes



# Did You Know..?

Each of our 96%+ efficient systems, compared to others equipped with traditional 80% to 90% efficient power supplies, can save up to \$500 per y<u>ear.</u>\_\_\_\_\_

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## Features

### **Content-Aware Data Service**

- Pooling & Abstraction
- Compression & Deduplication
- RAM Caching & Write Coalescing
- Thin Provisioning & Snapshots
- Fast Cloning
- QoS
- Data Mobility & File Replication
- Encryption & Data Protections

### Unified File, Block and Object Storage

# Data Availability

- High Availability
- Cluster-Wide Protections
- Remove RAID Overheads

### Scalability

• 256 nodes and beyond



The Supermicro TwinPro<sup>TM</sup> Solution architecture builds on Supermicro's proven Twin technology to provide the greatest and highest throughput storage, networking, I/O, memory, and processing capabilities in 2U.

# **Specifications**

Server Specifications (per node)	Supermic RTG-HCH-/	ro ACI2	S RT(	Supermicro G-HCH-AC24
Server Compute	Dual Intel E5-2680 v3 (10 Core)			
Hypervisor	VMware vSphere 5.5 or later (v-suffix), Citrix XenServer 6.5 or later (c-suffix)			
Memory	256GB – 384	4GB	384GB – ITB	
Networking	2 x 10GbE & 2 x 1GbE			
Storage per Appliance				
All-Flash Effective Capacity	I2TB			24TB
Storage Resilience	Atlantis USX HA Enabled with Single Host Failure Protection			
General Purpose Server Virtual Machine Density				
<b>Server VMs</b> (2 vCPU, 4GB RAM, 60GB)	170+		360+	
Virtual Desktop Density				
Maximum Number of Virtual Desktops per 4 Node Server Configuration	<b>Task Worker</b> (20GB, IvCPU, I.5GB RAM Login VSI Task Worker)	Knowledge Worker (50GB, 2vCPU, 2GB RAM Login VSI Knowledge Worker)		Power User (100GB, 2vCPU, 4GB RAM Login VSI Storage Workload)
Stateless VDI*	450 / 650	325 / 500		150 / 250
Persistent VDI*	400 / 650	325 / 500		150 / 250

\* RTG-HCH-AC12 / RTG-HCH-AC24





### Supermicro Advantages

- ✓ 24/7 Support
- ✓ First to Market
- ApplicationOptimized
- ✓ Industry Leading Power Efficiency
- ✓ No Hidden Costs
- ✓ Uncompromising Quality Control